



U.S. Department
of Transportation

Pipeline and
Hazardous Materials
Safety Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0753/S-96, REVISION 1

East Building, PHH-23
1200 New Jersey Avenue SE
Washington, D.C. 20590

This certifies that the source described has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and the United States of America² for the transport of radioactive material.

1. Source Identification - CIT-Alcatel capsule installed in Medtronic Model 9000 Pacemaker, Serial Nos. 4R0518N, 4R0520N, 4R0097N, 2R00290, 4R0162N, 4R0083N, 4R0174N, 4R0086N, 3R0060N, 4R0118N, 3R00184, 3R00192, 3R00173, 4R0171N, 3R0085N, 3R00201, 3R0151N, 3R0084N, and 3R0037N.
2. Source Description - Cylindrical double encapsulation made of tantalum (inner encapsulation) and platinum iridium (outer encapsulation). The inner encapsulation is electron beam welded. The outer encapsulation is tungsten inert gas heliarc welded. Approximate capsule outer dimensions are 9.2 mm (0.36 in.) in diameter and 9.6 mm (0.38 in.) in length. Construction shall be in accordance with attached Figure 2.3-1.
3. Radioactive Contents - No more than 0.1073 TBq (2.9 Ci) of Plutonium-238. The Pu-238 is in the form of a plutonium scandium alloy.
4. Special Conditions -
 - a. The CIT-Alcatel capsule and Medtronic pacemaker must have no known or suspected defects.
 - b. The Medtronic pacemaker must have satisfactorily passed (<0.005 microcurie detected) a leak test within the previous six months.
 - c. This certificate authorizes a one-time transportation, for disposal purposes only.

¹ "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency(IAEA), Vienna, Austria.

² Title 49, Code of Federal Regulations, Parts 100-199, United States of America.

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5. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations¹ shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors in the United States exporting shipments under this certificate shall satisfy the applicable requirements of Subpart H of 10 CFR 71.
6. Expiration Date - This certificate expires on June 30, 2010.

This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the June 19, 2008 petition by Los Alamos National Laboratory, Los Alamos, NM, and in consideration of other information on file in this Office.

Certified By:



Jun 26 2008

(DATE)

Robert A. Richard

Deputy Associate Administrator for Hazardous Materials Safety

Revision 1 - Issued to renew the expiration date and revise pacemaker serial numbers.

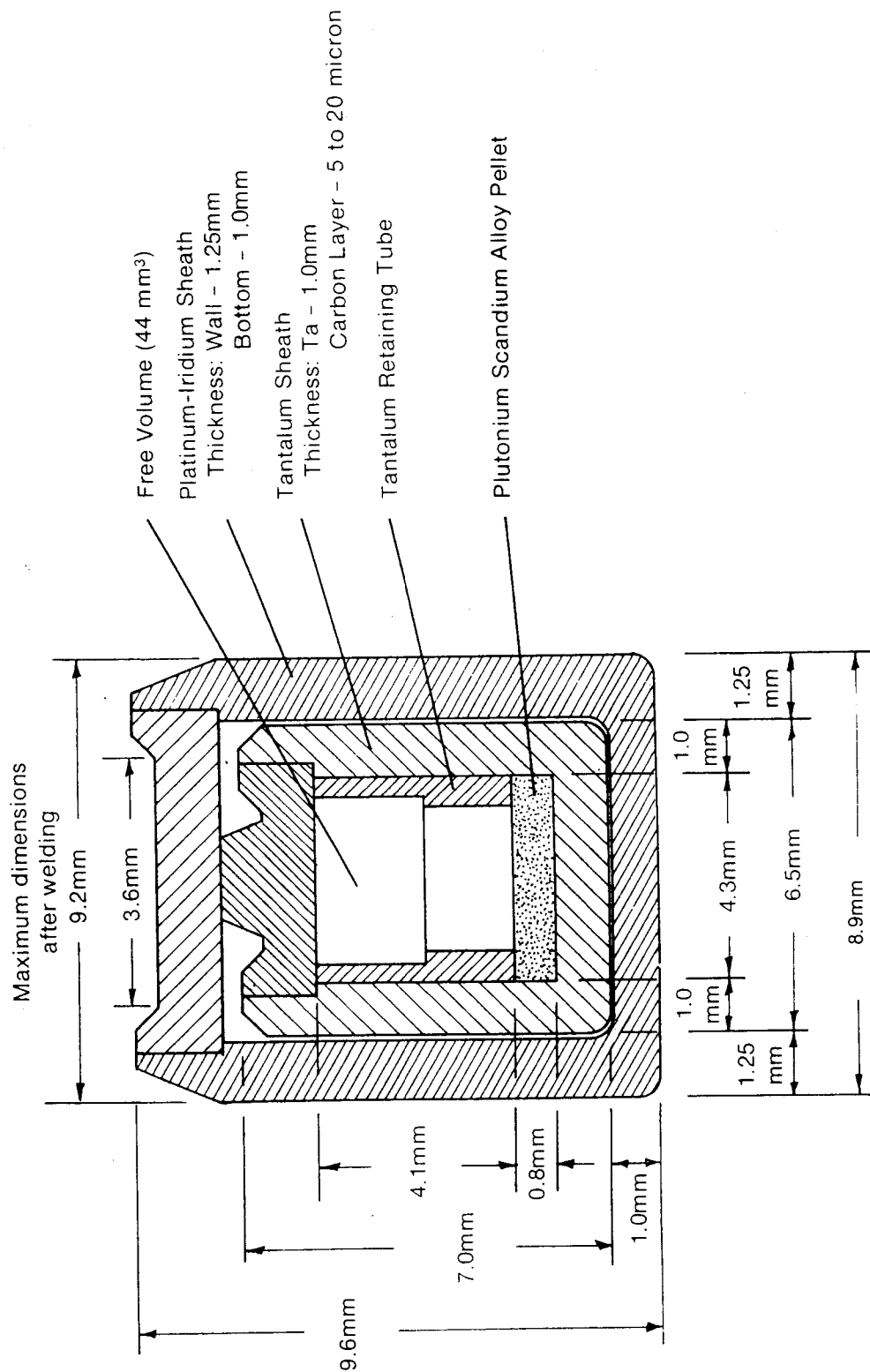


FIGURE 2.3-1 Cut Away of Fuel Capsule Showing Major Construction Features, Dimensions and Component Materials - Not to Scale



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